

(No Model.)

V. H. MATHUSHEK.
PIANO FORTE.

No. 447,963.

Patented Mar. 10, 1891.

Fig. 1.

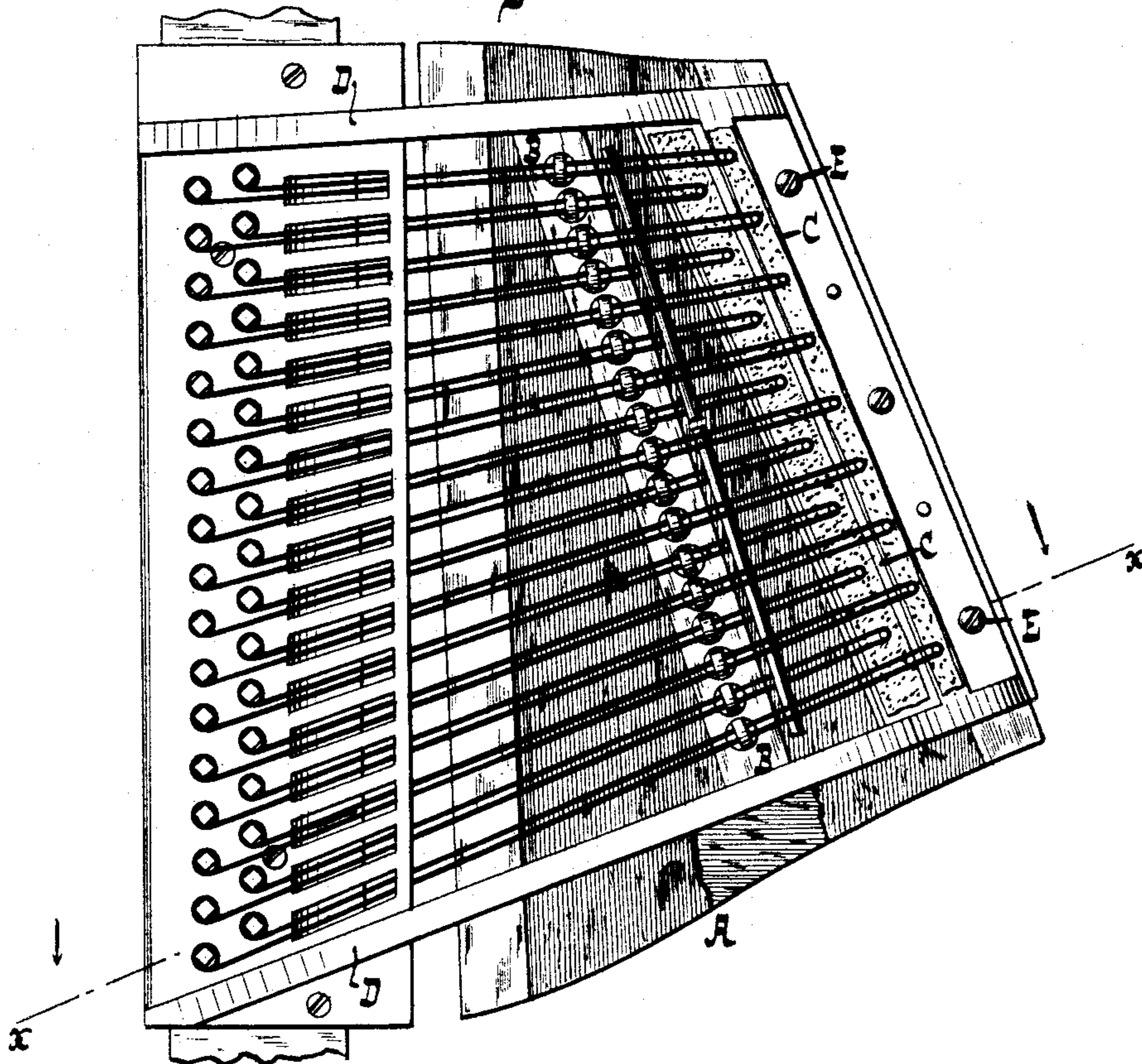
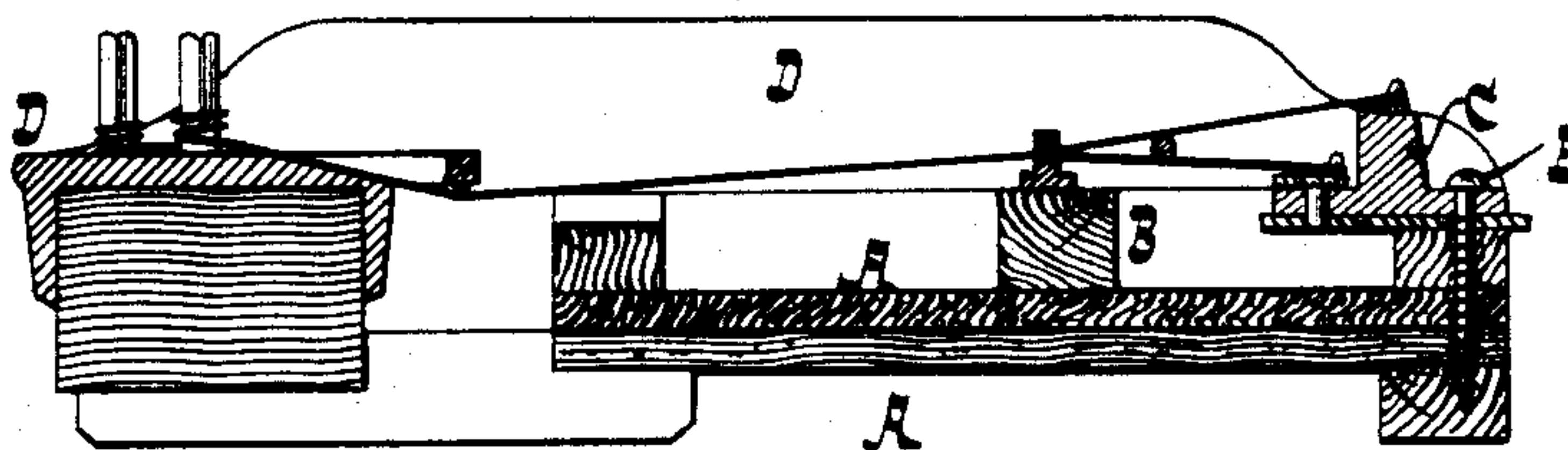


Fig. 2.



WITNESSES:

William Miller
Eduard Wolff

INVENTOR:

Victor Hugo Mathushek

BY

Van Santvoord & Hauff
ATTORNEYS

UNITED STATES PATENT OFFICE.

VICTOR HUGO MATHUSHEK, OF NEW YORK, N. Y.

PIANO-FORTE.

SPECIFICATION forming part of Letters Patent No. 447,963, dated March 10, 1891.

Application filed April 24, 1890. Serial No. 349,345. (No model.)

To all whom it may concern:

Be it known that I, VICTOR HUGO MATHUSHEK, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Piano-Fortes, of which the following is a specification.

This invention relates to improvements in piano-fortes, and by means of this invention I obtain an improved sounding-board, as set forth in the following specification and claim, and illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of a sounding-board.
Fig. 2 is a section along xx , Fig. 1.

In the drawings, the letter A indicates the sounding-board. B is the sounding-board bridge, and C is the hitch-pin block.

The sounding-board consists of two layers of wood, which are united to one another with the grain running in different directions. By having two layers of wood A A constituting the sounding-board I dispense with the cross ribs or bars, which were heretofore placed under or at the back of the sounding-boards. These bars are objectionable, especially in warm climates, since if the sounding-board buckled or because of the unequal thickness of the sounding-board and the bars the expansion and contraction of the board and the bars were unequal the bars would spring off. By gluing the two layers of wood A A to-

gether along their entire common surface said layers are so firmly secured that they will not buckle or spring apart. Furthermore, the screws E, passing through the hitch-pin block C and sounding-board into the supporting-frame D, prevent the layers A A from parting.

As the layers A A are preferably made of approximately the same thickness, said layers are not liable to expand or contract unequally. I have also found that when the sounding-board is composed of two layers of wood with the grain running in different directions such sounding-board is not liable to crack.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with the sounding-board composed of two layers of wood united with the grain running in different directions, of a sounding-board bridge B, made to rest on the sounding-board, a hitch-pin block C, supporting-frame D, and the screws E, passing through the hitch-pin block and the sounding-board layers into the supporting-frame, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

VICTOR HUGO MATHUSHEK.

Witnesses:

J. VAN SANTVOORD,
E. F. KASTENHUBER.